CONTENTS FOR VOLUME 61

NUMBER 1—JANUARY

GREATER YELLOWSTONE'S BISON: UNRAVELING OF AN EARLY AMERICAN WILDLIFE CONSERVATION ACHIEVEMENT—*Invited Paper* . . . . . Robert B.Keiter 1

DENSITY DEPENDENCE, COMPENSATION, AND ENVIRONMENTAL EFFECTS ON ELK CALF MORTALITY IN YELLOWSTONE NATIONAL PARK . . . . . Francis J. Singer, Albert Harting, Kate K. Symonds, and Michael B. Coughenour 12

EARLY DEVELOPMENT OF SUPPLEMENTALLY FED, FREE-RANGING ELK . . . . . Bruce L. Smith, Russell L. Robbins, and Stanley H. Anderson 26

SPATIAL AND TEMPORAL INTERACTION OF MALE AND FEMALE GRIZZLY BEARS IN NORTHWESTERN MONTANA . . . . . Richard D. Mace and John S. Waller 39

VALIDATION OF ^{22}SODIUM TO ESTIMATE FOOD INTAKE OF BEARS . . . . . Sean D. Farley and Charles T. Robbins 52

RELATIVE PRECISION AND SOURCES OF BIAS IN PRONGHORN SEX AND AGE COMPOSITION SURVEYS . . . . . Timothy P. Woolley and Frederick G. Lindzey 57

PROBABILITY OF DETECTING HARBOR PORPOISE FROM AERIAL SURVEYS: ESTIMATING $g(0)$ . . . . . Jeffrey L. Laake, John Calambokidis, Steven D. Osmek, and David J. Rugh 63

DISTRIBUTION OF BLACK-TAILED JACKRABBIT HABITAT DETERMINED BY GIS IN SOUTHWESTERN IDAHO . . . . . Steven T. Knick and Deanna L. Dyer 75

COMPARISON OF 2 METHODS TO ESTIMATE DENSITY OF AN ENDANGERED LAGOMORPH . . . . . Elizabeth A. Forys and Stephen R. Humphrey 86

USE OF BURROW ENTRANCES TO INDICATE DENSITIES OF TOWNSEND'S GROUND SQUIRRELS . . . . . Beatrice Van Horne, Robert L. Schooley, Steven T. Knick, Gail S. Olson, and Kenneth P. Burnham 92

RACCOON HABITAT USE AT 2 SPATIAL SCALES . . . . . John H. Pedlar, Lenore Fahrig, and H. Gray Merriam 102

A COMPARISON OF GRAY FOX ECOLOGY BETWEEN RESIDENTIAL AND UNDEVELOPED RURAL LANDSCAPES . . . . . Robert L. Harrison 112

EFFECTS OF LIVESTOCK GRAZING ON SMALL MAMMALS AT A DESERT CIENAGA . . . . . Bruce Hayward, Edward J. Heske, and Charles W. Painter 123

RUFFED GROUSE CONSUMPTION AND DETOXIFICATION OF EVERGREEN LEAVES . . . . . David G. Hewitt and Roy L. Kirkpatrick 129

HABITAT SELECTION BY SPOTTED OWLS DURING NATAL DISPERSAL IN WESTERN OREGON . . . . . Gary S. Miller, Robert J. Small, and E. Charles Meslow 140

LANDSCAPE COMPOSITION AND PATTERN AROUND NORTHERN SPOTTED OWL NEST SITES IN SOUTHWEST OREGON . . . . . William J. Ripple, Peter D. Lattin, K. T. Hershey, Frank F. Wagner, and E. Charles Meslow 151

FOREST BIRD RESPONSE TO REGENERATION PRACTICES IN CENTRAL HARDWOOD FORESTS . . . . . Elizabeth M. Annand and Frank R. Thompson 159

BIRD AND SMALL MAMMAL USE OF SHORT-ROTATION HYBRID POPLAR PLANTATIONS . . . . . Donald P. Christian, Patrick T. Collins, Joann M. Hanowski, and Gerald J. Niemi 171

CLINAL SIZE VARIATION IN CANADA GEESE AFFECTS MORPHOMETRIC DISCRIMINATION TECHNIQUES . . . . . James O. Leafloor and Donald H. Rusch 183

RELATIVE EFFECTS OF SURVIVAL AND REPRODUCTION ON THE POPULATION DYNAMICS OF EMPEROR GEESE . . . . . Joel A. Schmutz, Robert F. Rockwell, and Margaret R. Petersen 191

UNCERTAINTY AND THE MANAGEMENT OF MALLARD HARVESTS . . Fred A. Johnson, Clinton T. Moore, William L. Kendall, James A. Dubovsky, David F. Caithamer, James R. Kelley, Jr., and Byron K. Williams 202

SURVIVAL OF SPECTACLED EIDER ADULT FEMALES AND DUCKLINGS DURING BROOD REARING . . . . . Paul L. Flint and James B. Grand 217

POPULATION DYNAMICS OF WHITE-WINGED SCOTERS . . . . . David G. Krementz, Patrick W. Brown, F. Patrick Kehoe, and C. Stuart Houston 222

SITE-SPECIFIC LEAD EXPOSURE FROM LEAD PELLET INGESTION IN SENTINEL MALLARDS . . . . . Tonie E. Rocke, Christopher J. Brand, and John G. Mensik 228

VARIATION IN AVOIDANCE OF SIBERIAN PINE NEEDLE OIL BY RODENT AND AVIAN SPECIES . . . . . Shirley A. Wager-Pagé, Gisela Epple, and J. Russell Mason 235

TWO NEW IODINATED COMPOUNDS AS SERUM MARKERS IN FOXES . . . . . Ainsley Jones, John Woods, Chris Cheeseman, Allan Nadian, and Robert Page 241

Book Reviews 246

Journal News 260

NUMBER 2—APRIL

A PRAGMATIC APPROACH TO MODELING FOR WILDLIFE MANAGEMENT—*Invited Paper* . . . . . Anthony M. Starfield 261

STATISTICAL POWER ANALYSIS IN WILDLIFE RESEARCH . . . . . Robert J. Steidl, John P. Hayes, and Eric Schauber 270

EFFECTS OF SPATIOTEMPORAL SCALE ON AUTOCORRELATION AND HOME RANGE ESTIMATORS . . . . . Thomas L. Hansteen, Harry P. Andreassen, and Rolf A. Ims 280

A PHILOSOPHY OF HABITAT MANAGEMENT FOR NORTHERN BOBWHITES . . . . . Fred S. Guthery 291

SENSITIVITY ANALYSIS TO GUIDE POPULATION RECOVERY: PRAIRIE-CHICKENS AS AN EXAMPLE . . . . . Michael J. Wisdom and L. Scott Mills 302

EASTERN WILD TURKEY REPRODUCTION IN AN AREA SUBJECTED TO FLOODING . . . . . David T. Cobb and Phillip D. Doerr 313

AVIAN USE AND VEGETATION CHARACTERISTICS OF CONSERVATION RESERVE PROGRAM FIELDS . . . . . Jennifer M. Delisle and Julie A. Savidge 318

COMPARISON OF TREE BASAL AREA AND CANOPY COVER IN HABITAT MODELS: SUBALPINE FOREST . . . . . Brian S. Cade 326

CANOPY CLOSURE AROUND NEST SITES OF MEXICAN SPOTTED OWLS IN NORTH-CENTRAL ARIZONA . . . . . Teryl G. Grubb, Joseph L. Ganey, and Sharon R. Masek 336

BETWEEN-HABITAT MOVEMENT OF DUSKY-FOOTED WOODRATS AND VULNERABILITY TO PREDATION . . . . . Howard F. Sakai and Barry R. Noon 343

TRANSLOCATION AS A NONLETHAL ALTERNATIVE FOR MANAGING CALIFORNIA GROUND SQUIRRELS . . . . . Dirk Van Vuren, Amy J. Kuenzi, Ivette Loredo, Amy L. Leider, and Michael L. Morrison 351

SELECTION OF MATERNITY ROOSTS BY BIG BROWN BATS . . . . . Lisa M. Williams and Margaret C. Brittingham 359

COMPARISONS OF LETHAL AND NONLETHAL TECHNIQUES TO REDUCE RACCOON DEPREDATION OF SEA TURTLE NESTS . . . . . Mary J. Ratnaswamy, Robert J. Warren, Monique T. Kramer, and Michael D. Adam 368

RACCOON PREDATION ON ANCIENT MURRELETS ON EAST LIMESTONE ISLAND, BRITISH COLUMBIA . . . . . Lisa H. Hartman, Anthony J. Gaston, and Donald S. Eastman 377

MONITORING SONGBIRD POPULATION CHANGE WITH AUTUMN MIST NETTING . . . . . Erica H. Dunn, David J. T. Hussell, and Raymond J. Adams 389

GROWTH RATES OF AMERICAN ALLIGATORS IN COASTAL SOUTH CAROLINA . . . . . Philip M. Wilkinson and Walter E. Rhodes 397

EVALUATION OF AN AERIAL QUADRAT SURVEY FOR MONITORING WINTERING DUCK POPULATIONS . . . . . Diane R. Eggeman, Fred A. Johnson, Michael J. Conroy, and David H. Brakhage 403

DECLINE IN BODY MASS, SIZE, AND CONDITION OF GREATER SNOW GEESE, 1975–94 . . . . . Austin Reed and Nathalie Plante 413

EVALUATION OF TRUE METABOLIZABLE ENERGY FOR WATERFOWL . . . . . Mark J. Petrie, Ronald D. Drobney, and David A. Graber 420

DIET AND NUTRITION OF MALE CANVASBACKS DURING POSTREPRODUCTIVE MOLTS . . . . . Jonathan E. Thompson and Ronald D. Drobney 426

USE OF HABITATS BY FEMALE NORTHERN PINTAILS WINTERING IN SOUTHWESTERN LOUISIANA . . . . . Robert R. Cox, Jr. and Alan D. Afton 435

ACCUMULATION AND MOBILIZATION OF ORGANOCHLORINE CONTAMINANTS IN WINTERING GREATER SCAUP . . . . . Christopher R. Perkins and John S. Barclay 444

DAYTIME HABITAT SELECTION BY COTTONTAILS IN CENTRAL PENNSYLVANIA . . . . . Donald P. Althoff, Gerald L. Storm, and David R. Dewalle 450

POPULATION DYNAMICS OF A RECOLONIZING WOLF POPULATION . . . . . Daniel H. Pletscher, Robert R. Ream, Diane K. Boyd, Michael W. Fairchild, and Kyran E. Kunkel 459

ENUMERATING MEGAPOPULATIONS OF WILD BEARS WITH AN INGESTED BIOMARKER . . . . . David L. Garshelis and Larry G. Visser 466

USE OF LODGEPOLE PINE COVER TYPES BY YELLOWSTONE GRIZZLY BEARS . . . . . David J. Mattson 480

DISPERSAL PATTERNS OF LYNX IN THE NORTHWEST TERRITORIES . . . Kim G. Poole 497

IDENTIFICATION OF COUGAR AND JAGUAR FECES THROUGH BILE ACID CHROMATOGRAPHY . . . . . Gustavo J. Fernández, Juan C. Corley, and Angel F. Capurro 506

A TEST OF AVERSIVE AGENTS ON WOLVERINES . . Arild Landa and Bjørn Åge Tømmerås 510

TIMBER-MANAGEMENT AND NATURAL-DISTURBANCE EFFECTS ON MOOSE HABITAT: LANDSCAPE EVALUATION . . . . . Robert S. Rempel, Philip C. Elkie, Arthur R. Rodgers, and Michael J. Gluck 517

EFFECTS OF DIFFERENTIAL CORRECTION ON ACCURACY OF A GPS ANIMAL LOCATION SYSTEM . . . . . Robert S. Rempel and Arthur R. Rodgers 525

ACCURACY OF GPS TELEMETRY COLLAR LOCATIONS WITH DIFFERENTIAL CORRECTION . . . . . Ron Moen, John Pastor, and Yosef Cohen 530

SURVIVAL OF RADIOCOLLARED ADULT MOOSE IN LOWER SUSITNA RIVER VALLEY, SOUTHCENTRAL ALASKA . . . . . Ronald D. Modafferi and Earl F. Becker 540

FECAL INDICATORS, DIET, AND POPULATION PARAMETERS IN MULE DEER . . . . . Thomas E. Kucera 550

THE EFFECT OF IMMUNOCONTRACEPTION ON THE BEHAVIOR AND REPRODUCTION OF WHITE-TAILED DEER . . . . . William J. McShea, Steven L. Monfort, Salah Hakim, Jay Kirkpatrick, Irwin Liu, John W. Turner, Jr., Lisa Chassy, and Linda Munson 560

Book Reviews 570

Journal News 585

NUMBER 3—JULY

THE ROLE OF PROTECTED AREAS AS ECOLOGICAL BASELINES—*Invited Paper* . . . . . Peter Arcese and A. R. E. Sinclair 587

RELATIVE EFFECTS OF HABITAT LOSS AND FRAGMENTATION ON POPULATION EXTINCTION . . . . . Lenore Fahrig 603

IS SOCIAL LEARNING AN IMPORTANT INFLUENCE ON FORAGING BEHAVIOR IN WHITE-TAILED DEER? . . . . . D. E. Spalinger, S. M. Cooper, D. J. Martin, and L. A. Shipley 611

WOODLAND CARIBOU RELATIVE TO LANDSCAPE PATTERNS IN NORTHEASTERN ALBERTA . . . . . A. Kari Stuart-Smith, Corey J. A. Bradshaw, Stan Boutin, Daryll M. Hebert, and A. Blair Rippen 622

EFFECTS OF LANDSCAPE AND WEATHER ON WINTER SURVIVAL OF RING-NECKED PHEASANT HENS . . . . . Anjeanette L. Perkins, William R. Clark, Terry Z. Riley, and Paul A. Vohs 634

BIRD USE AND NESTING IN CONVENTIONAL, MINIMUM-TILLAGE, AND ORGANIC CROPLAND . . . . . John T. Lokemoen and Julia A. Beiser 644

RESPONSE OF AMPHIBIANS TO CLEARCUTTING, BURNING, AND GLYPHOSATE APPLICATION IN THE OREGON COAST RANGE . . . . . Elizabeth C. Cole, William C. McComb, Michael Newton, Carol L. Chambers, and J. P. Leeming 656

ATTRIBUTES OF BLACK-TAILED PRAIRIE DOG COLONIES IN NORTHCENTRAL MONTANA . . . . . Richard P. Reading and Randy Matchett 664

USE OF TREE STUMPS AS ROOSTS BY THE WESTERN LONG-EARED BAT . . . . . Maarten J. Vonhof and Robert M. R. Barclay 674

DENS OF NORTHERN FLYING SQUIRRELS IN THE PACIFIC NORTHWEST . . . . . Andrew B. Carey, Todd M. Wilson, Christine C. Maguire, and Brian L. Biswell 684

DENNING ECOLOGY OF BLACK BEARS IN THE WHITE RIVER NATIONAL WILDLIFE REFUGE, ARKANSAS . . . . . Madan K. Oli, Harry A. Jacobson, and Bruce D. Leopold 700

SEASONAL HABITAT SELECTION BY MARTEN IN AN UNTRAPPED FOREST PRESERVE . . . . . Theodore G. Chapin, Daniel J. Harrison, and David M. Phillips 707

DIVERSITY AND ABUNDANCE OF LANDBIRDS IN A NORTHEASTERN INDUSTRIAL FOREST . . . . . John M. Hagan, Peter S. McKinley, Amy L. Meehan, and Stacie L. Grove 718

WETLAND USE, SETTLING PATTERNS, AND RECRUITMENT IN MALLARDS . . . . . Gary L. Krapu, Raymond J. Greenwood, Chris P. Dwyer, Kathy M. Kraft, and Lewis M. Cowardin 736

A SIMPLE WETLAND HABITAT CLASSIFICATION FOR BOREAL FOREST WATERFOWL . . . . . Robert S. Rempel, Kenneth F. Abraham, Ted R. Gadawski, Shane Gabor, and R. Kenyon Ross 746

DESIGN AND RESULTS OF A WATERFOWL BREEDING POPULATION SURVEY FOR WYOMING . . . . . Danielle M. Prenzlow and James R. Lovvorn 758

VISIBILITY BIAS ON COUNTS OF NESTING CANADA GEESE . . . . . Scott E. Walter and Donald H. Rusch 768

SEASONAL AND ANNUAL SURVIVAL OF ADULT PACIFIC BRANT . . . . . David H. Ward, Eric A. Rexstad, James S. Sedinger, Mark S. Lindberg, and Neil K. Dawe 773

TESTING FOR HANDLING BIAS IN SURVIVAL ESTIMATION FOR BLACK BRANT . . . . . James S. Sedinger, Mark S. Lindberg, Eric A. Rexstad, Nathan D. Chelgren, and David H. Ward 782

FACTORS AFFECTING PREDATION ON ARTIFICIAL NESTS IN MARSHES . . . . . Benoît Jobin and Jaroslav Picman 792

FREQUENCY OF NEST BOX MAINTENANCE: EFFECTS ON WOOD DUCK NESTING IN SOUTH CAROLINA . . . . . Francis M. Utsey and Gary R. Hepp 801

BROOD ECOLOGY OF MALLARDS AND GADWALLS NESTING ON ISLANDS IN LARGE RESERVOIRS . . . . . Rodney D. Sayler and Mark A. Willms 808

INDIVIDUAL TURNOVER AMONG WINTERING TEAL IN CAMARGUE: A MARK- RECAPTURE STUDY . . . . . Roger Pradel, Nathalie Rioux, Alain Tamisier, and Jean-Dominique Lebreton 816

BODY-MASS, SURVIVAL, AND PAIRING CONSEQUENCES OF WINTER-DIET RESTRICTION IN WOOD DUCKS . . . . . Dean W. Demarest, Richard M. Kaminski, Leonard A. Brennan, and Carolyn R. Boyle 822

SELENIUM IN AQUATIC BIRDS FROM CENTRAL CALIFORNIA . . . . . Fred L. Paveglio, Kevin M. Kilbride, and Christine M. Bunck 832

CHRONOLOGY OF WILD TURKEY NESTING, GOBBLING, AND HUNTING IN MISSISSIPPI . . . . . Darren A. Miller, George A. Hurst, and Bruce D. Leopold 840

SURVIVAL OF NORTHERN BOBWHITE CHICKS IN WESTERN OKLAHOMA . . . . . Stephen J. DeMaso, Alan D. Peoples, Scott A. Cox, and Edward S. Parry 846

NORTHERN BOBWHITE RESTOCKING IN EAST TEXAS: A GENETIC ASSESSMENT . . . . . Michael A. Nedbal, Rodney L. Honeycutt, Steven G. Evans, R. Montague Whiting, Jr., and Donald R. Dietz 854

GENETIC CHANGES IN REINTRODUCED ROCKY MOUNTAIN BIGHORN SHEEP POPULATIONS . . . . . Nancy N. Fitzsimmons, Steven W. Buskirk, and Michael H. Smith 863

IMMUNOCONTRACEPTION LIMITS FOAL PRODUCTION IN FREE-ROAMING FERAL HORSES IN NEVADA . . . . . John W. Turner, Jr., Irwin K. M. Liu, Allen T. Rutberg, and Jay F. Kirkpatrick 873

SIMULATING NITROGEN METABOLISM AND URINARY UREA NITROGEN : CREATININE RATIOS IN RUMINANTS . . . . . Ron Moen and Glenn D. DelGiudice 881

TRENDS OF WINTER NUTRITIONAL RESTRICTION, TICKS, AND NUMBERS OF MOOSE ON ISLE ROYALE . . . . . Glenn D. DelGiudice, Rolf O. Peterson, and William M. Samuel 895

MORTALITY PATTERNS OF WHITE-TAILED DEER IN MICHIGAN'S UPPER PENINSULA . . . . . Timothy R. Van Deelen, Henry Campa III, Jonathan B. Haufler, and Paul D. Thompson 903

EFFECTS OF RED IMPORTED FIRE ANTS ON RECRUITMENT OF WHITE-TAILED DEER FAWNS . . . . . Craig R. Allen, Stephen Demarais, and R. Scott Lutz 911

EVALUATION OF LIME AS AN AVIAN FEEDING REPELLENT . . . . . Jerrold L. Belant, Laura A. Tyson, Thomas W. Seamans, and Sheri K. Ickes 917

ESTIMATION OF EFFECTIVE AREA OF BIRD SCARERS . . . . . Kazuo Nakamura 925

BIRD REACTIONS TO OBSERVER CLOTHING COLOR: IMPLICATIONS FOR DISTANCE-SAMPLING TECHNIQUES . . . . . Kevin J. Gutzwiller and Heidi A. Marcum 935

EFFECT OF RESEARCH ACTIVITY ON THE SUCCESS OF AMERICAN ROBIN NESTS . . . . . Catherine P. Ortega, Joseph C. Ortega, Cristin A. Rapp, Shawchyi Vorisek, Stacia A. Backensto, and Donald W. Palmer 948

EFFECTS OF TRANSMITTERS ON REPRODUCTION AND SURVIVAL OF WILD MALLARDS . . . . . Gil A. Paquette, James H. Devries, Robert B. Emery, David W. Howerter, Brian L. Joynt, and Tomasz P. Sankowski 953

BALD EAGLE POPULATION IN PRINCE WILLIAM SOUND AFTER THE *EXXON VALDEZ* OIL SPILL . . . . . Timothy D. Bowman, Philip F. Schempf, and John I. Hodges 962

ESTIMATING AGE OF SEA OTTERS WITH CEMENTUM LAYERS IN THE FIRST PREMOLAR James L. Bodkin, Jack A. Ames, Ronald J. Jameson, Ancel M. Johnson, and Gary M. Matson 967

Book Reviews 974

NUMBER 3—OCTOBER

VALUATION OF EXPERIMENTAL MANAGEMENT OPTIONS FOR ECOLOGICAL SYSTEMS—*Invited Paper* . . . . . Carl J. Walters and Roger Green 987

LOGIC AND SCIENCE IN WILDLIFE BIOLOGY . . . . . Byron K. Williams 1007

ANALYSIS OF HABITAT SELECTION STUDIES WITH MULTIPLE PATCHES WITHIN COVER TYPES . . . . . David L. Otis 1016

COMPUTER SIMULATION OF VASECTOMY FOR WOLF CONTROL . . . . . Robert G. Haight and L. David Mech 1023

GRIZZLY BEAR HABITAT SELECTION IN THE SWAN MOUNTAINS, MONTANA . . . . . John S. Waller and Richard D. Mace 1032

SPRING FEEDING ON UNGULATE CARCASSES BY GRIZZLY BEARS IN YELLOWSTONE NATIONAL PARK . . . . . Gerald I. Green, David J. Mattson, and James M. Peek 1040

GRIZZLY BEAR PREDATION RATES ON CARIBOU CALVES IN NORTHEASTERN ALASKA . . . . . Donald D. Young, Jr. and Thomas R. McCabe 1056

INFLUENCE OF NATURAL FOOD ABUNDANCE ON BLACK BEAR HARVESTS IN MINNESOTA . . . . . Karen V. Noyce and David L. Garshelis 1067

MALE-BIASED HARVESTING OF POLAR BEARS IN WESTERN HUDSON BAY . . . . . Andrew E. Derocher, Ian Stirling, and Wendy Calvert 1075

PREDICTING BODY MASS IN POLAR BEARS: IS MORPHOMETRY USEFUL? . . . . . Marc R. L. Cattet, Stephen N. Atkinson, Susan C. Polischuk, and Malcolm A. Ramsay 1083

FACTORS INFLUENCING EFFICIENCY OF WHITE-TAILED DEER HARVEST IN ILLINOIS . . . . . John R. Foster, John L. Roseberry, and Alan Woolf 1091

EFFECTS OF SEASONAL PROTEIN RESTRICTION ON ANTLEROGENESIS AND BODY MASS IN ADULT MALE WHITE-TAILED DEER 1098
Mark A. Asleson, Eric C. Hellgren, and Larry W. Varner

USE OF WARM-SEASON FOOD PLOTS BY WHITE-TAILED DEER .....
Michael W. Hehman and Timothy E. Fulbright 1108

EFFECTS OF ROAD MANAGEMENT ON MOVEMENT AND SURVIVAL OF ROOSEVELT ELK ..... Eric K. Cole, Michael D. Pope, and Robert G. Anthony 1115

EFFECTS OF PETROLEUM EXPLORATION ON WOODLAND CARIBOU IN NORTHEASTERN ALBERTA ..... Corey J. A. Bradshaw, Stan Boutin, and Daryll M. Hebert 1127

BED-SITE CHARACTERISTICS OF PRONGHORN FAWNS .....
S. Kemble Canon and Fred C. Bryant 1134

LANDSCAPE-SCALE FORAGING DECISIONS BY REINTRODUCED ARABIAN ORYX ....
Timothy H. Tear, Jeffrey C. Mosley, and Ernest D. Ables 1142

COMPARISON OF HORN GROWTH IN CAPTIVE AND FREE-RANGING DALL'S RAMS ..
Manfred Hoefs and Uli Nowlan 1154

SURVIVAL, MOVEMENTS, AND BREEDING OF RELEASED HAWAIIAN GEESE: AN ASSESSMENT OF THE REINTRODUCTION PROGRAM .....
Jeffrey M. Black, Ann P. Marshall, André Gilburn, Nelson Santos, Howard Hoshide, John Medeiros, Joaquin Mello, Cathleen Natividad Hodges, and Larry Katahira 1161

REPRODUCTIVE SUCCESS AND FEMALE SURVIVAL AFFECT LOCAL POPULATION DENSITY OF CANVASBACKS .....
Michael G. Anderson, Robert B. Emery, and Todd W. Arnold 1174

A SURVEY FOR MALLARD PAIRS IN THE ATLANTIC FLYWAY .....
H. W. Heusmann and John R. Sauer 1191

HABITAT USE BY NESTING AND BROOD REARING NORTHERN PINTAILS ON THE YUKON-KUSKOKWIM DELTA, ALASKA .....
James B. Grand, Paul L. Flint, and Patricia J. Heglund 1199

SATELLITE TRACKING OF WHITE-FACED WHISTLING DUCKS IN A SEMIARID REGION OF SOUTH AFRICA ..... Scott A. Petrie and Kevin H. Rogers 1208

WINTER MOVEMENTS AND HABITAT USE BY GREATER SNOW GEESE .....
Michael R. J. Hill and Robert B. Frederick 1213

REEXAMINATION OF COWBIRD PARASITISM AND EDGE EFFECTS IN WISCONSIN FORESTS ..... John Bielefeldt and Robert N. Rosenfield 1222

TEMPORAL PATTERNS OF PREDATION ON ARTIFICIAL NESTS IN THE SOUTHERN BOREAL FOREST ..... Erin M. Bayne and Keith A. Hobson 1227

EDGE-RELATED NEST LOSSES IN WISCONSIN PINE BARRENS .....
Neal D. Niemuth and Mark S. Boyce 1234

A CRITICAL ANALYSIS ON THE USE OF INDICATOR SPECIES IN MANAGEMENT .....
Gerald J. Niemi, Joann M. Hanowski, Ann R. Lima, Tom Nicholls, and Norm Weiland 1240

LOCAL MOVEMENTS OF COLOR-MARKED COMMON LOONS .....
Walter H. Piper, James D. Paruk, David C. Evers, Michael W. Meyer, Keren B. Tischler, Margaret Klich, and Jerry J. Hartigan 1253

POWER TO DETECT TRENDS IN WATERBIRD ABUNDANCE WITH CALL-RESPONSE SURVEYS ..... James P. Gibbs and Scott M. Melvin 1262

AN EXPERIMENTAL TEST OF INTERSPECIFIC COMPETITION FOR RED-COCKADED WOODPECKER CAVITIES ..... Susan C. Loeb and Robert G. Hooper 1268

CALIFORNIA SPOTTED OWL HABITAT SELECTION IN THE CENTRAL SIERRA NEVADA .....
Christine A. Moen and R. J. Gutiérrez 1281

POTENTIAL EFFECTS OF ENVIRONMENTAL CONTAMINANTS ON RECOVERY OF THE APLOMADO FALCON IN SOUTH TEXAS .....
Miguel A. Mora, M. Clare Lee, J. Peter Jenny, Thomas W. Schultz, Jose L. Sericano, and Nancy J. Clum 1288

ARE AVIAN HEMATOCRITS INDICATIVE OF CONDITION? AMERICAN KESTRELS AS A MODEL ..... Russell D. Dawson and Gary R. Bortolotti 1297

FLUSHING RESPONSES OF WINTERING BALD EAGLES TO MILITARY ACTIVITY .....
Mark V. Stalmaster and James L. Kaiser 1307

REPRODUCTIVE SUCCESS OF BALD EAGLES IN INTERIOR ALASKA .....
Robert J. Steidl, Karin D. Kozie, and Robert G. Anthony 1313

THE *EXXON VALDEZ* OIL SPILL DISRUPTED THE BREEDING OF BLACK OYSTERCATCHERS . . . . . Brad A. Andres 1322

SURVIVAL RATES OF AMERICAN WOODCOCK WINTERING IN THE GEORGIA PIEDMONT . . . . . David G. Krementz and James B. Berdeen 1328

RING-NECKED PHEASANT POPULATION GENETIC STRUCTURE . . . . . James T. Giesel, Daniel Brazeau, R. Koppelman, and D. Shiver 1332

EVALUATION OF PHEASANT CROWING RATES AS A POPULATION INDEX . . . . . David R. Luukkonen, Harold H. Prince, and Ivan L. Mao 1338

EFFECTS OF HAND-REARING AND RADIOTRANSMITTERS ON FLIGHT OF GRAY PARTRIDGE . . . . . Ahti Putaala, Juha Oksa, Hannu Rintamäki, and Raimo Hissa 1345

DERMAL CONTACT REPELLENTS FOR STARLINGS: FOOT EXPOSURE TO NATURAL PLANT PRODUCTS . . . . . Larry Clark 1352

FEEDING DETERRENCE OF ANTHRAQUINONE, ANTHRACENE, AND ANTHRONE TO RICE-EATING BIRDS . . . . . Michael L. Avery, John S. Humphrey, and David G. Decker 1359

EFFECTS OF HABITAT MANIPULATIONS ON TEXAS HORNED LIZARDS AND THEIR PREY . . . . . W. Scott Fair and Scott E. Henke 1366

HABITAT FACTORS INFLUENCING BEAVER DAM ESTABLISHMENT IN A NORTHERN ONTARIO WATERSHED . . . . . D. M. Barnes and A. U. Mallik 1371

DIGGINGS AS A POPULATION INDEX FOR THE EASTERN BARRED BANDICOOT . . . . . Stephen A. Mallick, Michael M. Driessen, and Gregory J. Hocking 1378

ESTIMATING FOREST ELEPHANT NUMBERS WITH DUNG COUNTS AND A GEOGRAPHIC INFORMATION SYSTEM . . . . . R. F. W. Barnes, K. Beardsley, F. Michelmore, K. L. Barnes, M. P. T. Alers, and A. Blom 1384

SATELLITE-MONITORED MOVEMENTS OF THE NORTHERN RIGHT WHALE . . . . . Bruce R. Mate, Sharon L. Nieukirk, and Scott D. Kraus 1393

TOPOGRAPHIC MAPPING, LORAN-C, AND GPS ACCURACY FOR AERIAL TELEMETRY LOCATIONS . . . . . William K. Carrel, Richard A. Ockenfels, Jennifer A. Wennerlund, and James C. Devos, Jr. 1406

EFFECTS OF RADIOCOLLARS ON SAN JOAQUIN KIT FOXES . . . . . Brian L. Cypher 1412

IMPROVED BILE-ACID THIN-LAYER CHROMATOGRAPHY TO IDENTIFY FECES OF NEOTROPICAL CARNIVORES . . . . . Angel F. Capurro, Andrés J. Novaro, Alejandro Travaini, and Marta S. Romero 1424

FECAL STEROID PROFILES IN BLACK-FOOTED FERRETS EXPOSED TO NATURAL PHOTOPERIOD . . . . . Janine L. Brown 1428

Book Reviews 1437

Journal News 1457

INDEX 1459

BOOK REVIEWS (Jan, Apr, Jul, Oct) 1509